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NOTICE OF ALLOWANCE AND FEE(S) DUE

20280

7590

12/03/2009

MOTOROLA INC 600 NORTH US HIGHWAY 45 W4 - 39Q LIBERTYVILLE, IL 60048-5343 EXAMINER

DEAN, RAYMOND S

ART UNIT PAPER NUMBER

2618 DATE MAILED: 12/03/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,103	09/16/2003	John D. Reed	CS23599RL	1627

TITLE OF INVENTION: SYSTEM, METHOD, AND APPARATUS FOR ESTABLISHING HEADROOM FOR A MOBILE STATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/03/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

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If the SMALL ENTITY is shown as NO:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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20280 MOTOROLA I 600 NORTH US W4 - 39Q	HIGHWAY 45	/2009			Cert	ificate	of Mailing or Transı 5) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission	1
LIBERTYVILLI	E, IL 60048-5343								(Depositor's name)
									(Signature)
			L						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR		ATTO:	RNEY DOCKET NO.	CONF	FIRMATION NO.
10/663,103 ITLE OF INVENTION	09/16/2003 : SYSTEM, METHOD, 2	AND APPARATUS FOR	John D. Reed RESTABLISHING HE	ADR	ROOM FOR A MC	BILE	CS23599RL STATION		1627
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510	\$300		\$0	•	\$1810		03/03/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
DEAN, RA	YMOND S	2618	455-522000	_					
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, altern (2) the name of a si registered attorney 2 registered patent a	For printing on the patent front page, list) the names of up to 3 registered patent attorneys agents OR, alternatively,) the name of a single firm (having as a member a gistered attorney or agent) and the names of up to registered patent attorneys or agents. If no name is sted, no name will be printed.					
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG	ess an assignee is identi n in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO categories (will not be presented to the presented of the presented	data will appear on th T a substitute for filing (B) RESIDENCE: (CI	e pat an as	eent. If an assigne ssignment. and STATE OR Co	OUNT			_
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MOTOROLA INC			DEAN, RAYMOND S			
600 NORTH US HIGHWAY 45			ART UNIT PAPER NUMBER			
W4 - 39Q LIBERTYVILLE, IL 60048-5343			2618 DATE MAILED: 12/03/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 594 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 594 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/663,103	REED ET AL.			
Notice of Allowability	Examiner	Art Unit			
	RAYMOND S. DEAN	2618			
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to September 10, 2009.	(OR REMAINS) CLOSED in or other appropriate commul GHTS. This application is s	this application. If not included nication will be mailed in due cou	ırse. THIS		
2. ☑ The allowed claim(s) is/are <u>1,3-7 and 12-20</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	n No	n from the		
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) including changes required by the Notice of Draftspers	•	(PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			CK) Of		
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			e the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Notice of Inf	ormal Patent Application			
 Notice of Neterences Gled (110-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		ımmary (PTO-413),			
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./I	Mail Date Amendment/Comment			
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	<u> </u>	Statement of Reasons for Allowa	nce		
of Biological Material	9. 🔲 Other	9.			

DETAILED ACTION

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Examiner respectfully disagrees with Applicants' assertion that Gholmieh does not teach the feature of establishing, by the mobile station, a headroom value based on the communication channel variance condition. Gholmieh, for the same reasons set forth in the Office Actions dated August 22, 2007 and July 16, 2008, teaches this feature. The term "communication channel variance" is a broad term, which reads on a variety of changes to a communication channel such as changes in the quality of the channel or link. It is very well established in the art that closed-loop power control comprises adjusting the power in response to a change in link quality such as a change in the signal-to-interference ratio (SIR). Gholmieh, thus, reads on the limitation in question. Gholmieh further teaches establishing a headroom value based on the communication channel variance condition. The headroom value changes in response to the power control commands (See Section 0009 of Gholmieh). The power control commands are sent as a result of the change in the channel or link quality thus the headroom value changes ultimately in response to the change in the channel or link quality.

Examiner respectfully disagrees with Applicants' assertion that Examiner acknowledges that Gholmieh does not teach determining, by the mobile station, a communication channel variance condition on Page 4 of the Office Actions dated

January 2, 2009 and June 15, 2009... Page 4 of the Office Actions dated January 2, 2009 and June 15, 2009 actually reads "Gholmieh does not teach determining, by the mobile station, a communication channel variance condition, wherein the communication channel variance condition is at least one of a primary pilot power variance, fading period and fade depth estimate, or a peak-to-average estimate within an adaptive measurement interval."

Page 3

While the prior art of record teaches the establishing of a headroom value based on the communication channel variance condition the prior art of record fails to teach or render obvious establishing a headroom value based on the communication channel variance condition, wherein the communication channel variance condition is at least one of a primary pilot power variance, fading period and fade depth estimate, or a peak-to-average estimate within an adaptive measurement interval. Claims 1, 12, 16, and their corresponding dependent claims are therefore allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAYMOND S. DEAN whose telephone number is (571)272-7877. The examiner can normally be reached on Monday-Friday 6:00-2:30.

Application/Control Number: 10/663,103 Page 4

Art Unit: 2618

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Raymond S Dean/ Examiner, Art Unit 2618 Raymond S. Dean November 24, 2009